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Amendments to the Claims:

Listing of Claims:

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- Claim 1(currently amended) A damascene process capable of avoiding via resist poisoning, the damascene process comprising:
- providing a semiconductor substrate with a low-k dielectric layer_(k≤ 2.9)_thereon, a SiC layer over the low-k dielectric layer, a metal layer over the SiC layer, and a first bottom anti-reflection coating (BARC) layer over the metal layer;
 - forming a first resist layer on the first BARC layer, wherein the first resist layer has a trench opening to expose a portion of the first BARC layer;
 - etching through the first BARC layer and the metal layer and etching a portion of the SiC layer to form a trench structure in the SiC layer;
- removing the first resist layer and the first BARC layer;
 - forming a blocking layer on the surface of the trench structure of the SiC layer, wherein the blocking layer is used to prevent unpolymerized precursors diffused out from the low-k dielectric layer from contacting an overlying resist;
- forming a second BARC layer on the blocking layer, the second BARC layer filling the trench structure;
 - forming a second resist layer on the second BARC layer, the second resist layer having a via opening to expose a portion of the second BARC layer;
- 25 etching through the second BARC layer, the SiC layer, and the blocking layer, and etching a portion of the low-k dielectric layer to form a via structure in the low-k dielectric layer;
 - removing the second resist layer and the second BARC layer; and

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- performing a dual damascene process using the metal layer and the SiC layer as masks to make the low-k dielectric layer form a dual damascene structure having the trench and the via structure.
- 5 Claim 2 (original) The process of claim 1 wherein the blocking layer is formed by Ar plasma hitting the SiC layer.
 - Claim 3 (currently amended) The process of claim 2 wherein the Ar plasma comprises a flurane fluorine substance.
 - Claim 4 (currently amended) The process of claim 3 wherein the flurano fluorine substance is CF₄.
- Claim 5 (original) The process of claim 1 wherein the low-k dielectric layer comprises a carbon-doped oxide (CDO) substance.
 - Claim 6 (original) The process of claim 1 wherein a dielectric layer is set between the metal layer and the first BARC layer.
- Claim 7 (original) The process of claim 1 wherein the thickness of the SiC layer is less than 700 angstroms.
 - Claim 8 (currently amended) A damascene process capable of avoiding via resist poisoning, the damascene process comprising:
- providing a semiconductor substrate with a low-k dielectric layer_(k≤ 2.9)_thereon, and a SiC layer over the low-k dielectric layer; forming a blocking layer on the SiC layer, wherein the blocking layer
 - is used to prevent unpolymerized precursors diffused out from

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the low-k dielectric layer from contacting an overlying resist; forming a BARC layer on the blocking layer; forming a resist layer on the BARC layer, wherein the resist layer has a via opening to expose a portion of the BARC layer; and etching through the BARC layer, the blocking layer, and the SiC layer, and etching a portion of the low-k dielectric layer to form a

single damascene structure in the low-k dielectric layer.

- Claim 9 (original) The process of claim 8 wherein the blocking layer is formed by Ar plasma hitting the SiC layer.
 - Claim 10 (currently amended) The process of claim 9 wherein the Ar plasma comprises a flurane fluorine substance.
- Claim 11 (currently amended) The process of claim 10 wherein the flurane fluorine substance is CF₄.
 - Claim 12 (original) The process of claim 8 wherein the low-k dielectric layer comprises a carbon-doped oxide substance.

Claim 13 (original) The process of claim 1 wherein the thickness of the SiC layer is less than 700 angstroms.